

## NxtScript enzyme and master mix

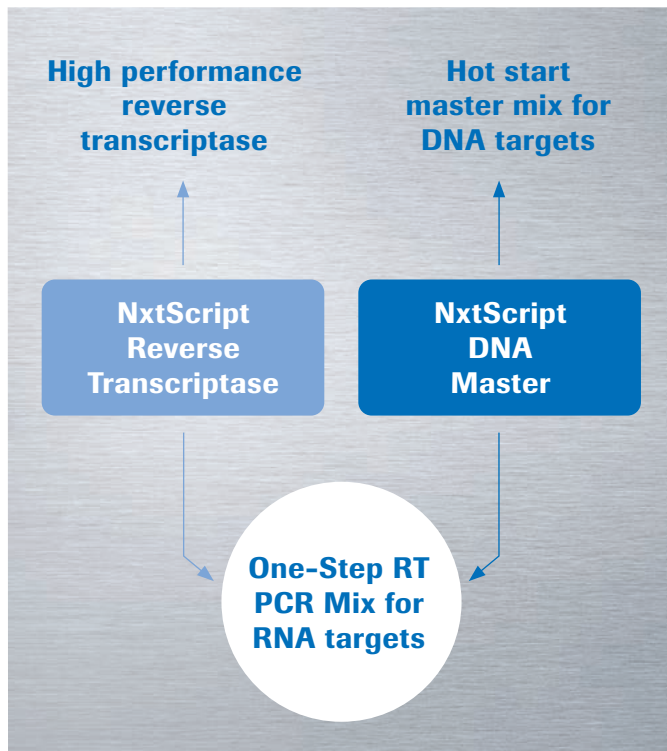
### Next generation high performance RT-PCR

#### NxtScript RT for high temperature transcription

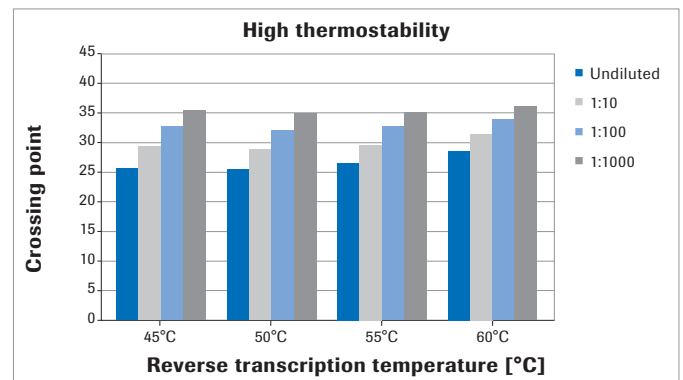
NxtScript RT is a designed M-MLV reverse transcriptase with high thermostability. The enzyme can be used to generate first-strand cDNA from mRNA or total RNA for use in downstream applications, such as two-step RT-PCR, RT-PCR for detection of viral and mRNA targets (e.g., cancer biomarkers), and generation of full-length cDNA libraries. Point mutations increase the thermostability of the enzyme and support higher cDNA yield of full-length transcripts than wild type M-MLV reverse transcriptase.

#### NxtScript DNA Master for stable multiplex performance

The NxtScript DNA Master is a sensitive and robust 5x conc. master mix. You can use it to run qPCR reactions and detect DNA, or use it in combination with NxtScript Reverse Transcriptase to detect RNA targets, such as viral pathogens. This mix is optimized for multiplex reactions and shows high room temperature stability.



- Easily detect difficult DNA targets**  
 The high thermostability of NxtScript allows reactions up to 60°C to overcome RNA secondary structures (e.g., in GC-rich templates).
- Save time and stay specific**  
 Take advantage of the aptamer hot start technology and run a fast PCR protocol.
- Benefit from high quality standards and multiple formats**  
 Roche quality management is inserted in every production step for full documentation and traceability. Customized manufacturing and filling upon request.



Reverse transcription at different temperatures and subsequent qPCR show the high thermostability of NxtScript. Reference: data on file at Roche.

## Ordering information

Product	Pack size	Catalog number
<b>NxtScript Reverse Transcriptase, conc.</b>	custom fill	07 051 166 103
<b>Specification</b>		
Appearance	clear, colorless solution	
Activity	≥250 U/μl	
Storage buffer	Tris/HCl, 25 mmol/l; Glycerin, 50% (v/v); NaCl, 100 mmol/l; DTT, 20 mmol/l; EDTA, 0.1 mmol/l; Triton X-100 0.01% (v/v); pH 7.5	
Purity (HPLC)	≥90%	
Nonspecific endonucleases (MWM III DNA)	not detectable with up to 75 U after 16 hours incubation at 37°C	
Ribonucleases (MS2 RNA)	not detectable with up to 150 U after 1 hour incubation at 37°C	
Stability	12 months at -15 to -25°C	
<b>NxtScript RT, 85 U/μl, 80 μl</b>	80 μl	07 371 527 103

Product	Pack size	Catalog number
<b>NxtScript DNA Master</b>	5 ml	07 368 143 103
<b>Specification</b>		
Appearance	clear, colorless solution	
Function tested in qPCR (human reference cDNA G6PDH/β2M fragments)	corresponds	
Stability	15 months at -15 to -25°C	

Related products	Pack size	Catalog number
<b>Hot Start Polymerases</b>		
AptaTaq DNA Polymerase, 5 U/μl	custom fill	05 457 882 103
AptaTaq DNA Polymerase, glycerol-free, 50 U/μl	custom fill	05 187 605 103
KAPA3G HotStart DNA Polymerase, glycerol-free, 30 U/μl	custom fill	08 918 651 103

## Regulatory disclaimer

KAPA products: For further processing only.

APTATAQ and NXTSCRIPT products: For customers in the European Economic Area: Contains SVHC: octyl/nonylphenol ethoxylates. For further processing on its own or in a mixture as part of an IVD method and under controlled conditions only – acc. to Art. 56 (3) and 3 no. 23 REACH Regulation.

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